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PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
		Application Number			
		Filing Date			
		First Named Inventor		Kia Silverbrook	
		Art Unit			
		Examiner Name			
Sheet 1 of 7		Attorney Docket Number		WAL15US	

U.S. PATENT DOCUMENTS					
Examiner Initials ⁷	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		us-5,719,604 *	Feb 17, 1998	Inui et al	
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Examiner Initials ⁷	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		EP 0 713 774 *	May 29, 1996	Sharp Kabushiki Kaisha		
		DE 195 16 997 *	Nov 16, 1995	Sharp K.K		
		DE 196 23 620 *	Dec 19, 1995	Sharp K.K		
		JP 2-108544 (Abstract) *	Apr 20, 1990	Seiko Epson Corp		
		JP 2-92643 (Abstract) *	Apr 03, 1990	Seiko Epson Corp		
		JP 4-353458 (Abstract) *	Dec 08, 1992	Brother Ind Ltd		
		JP 6-91865 (Abstract) *	Apr 05, 1994	Seikosha Co Ltd		
		JP 6-91866 (Abstract) *	Apr 05, 1994	Seikosha Co Ltd		
		JP 2-265752 (Abstract) *	Oct 30, 1990	Matsushita Electronic Ind Co Ltd		
		EP 0 634 273 *	Jan 18, 1995	Sharp Kabushiki Kaisha		

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				Attorney Docket Number	WAL15US
Sheet	2	of	7		

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
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		JP 58 112747 (Abstract) *	Jul 05, 1983	Fujitsu KK		
		DE 43-28 433 *	Mar-02, 1995	Heidleberger-Druckmaschinen-AG		
		JP 61.025849. (Abstract) *	Feb.04, 1986	Canon Inc.		
		JP 01 128839 (Abstract) *	May 22, 1989	Ricoh Co Ltd		
		JP 04 126255 (Abstract) *	Apr 27, 1992	Seiko Epson Corp		
		GB 2 262 152 *	Jun 09, 1993	Willett Int Ltd		
		DE 195 16 997 *	Nov 16, 1995	Sharp K.K		
		JP 05 318724 (Abstract) *	Dec 03, 1993	Seikosha Co Ltd		
		JP 02.162049. (Abstract) *	Jun 21, 1990	Seiko Epson Corp		
		DE 32 45 283 *	Jun 07, 1984	Siemens AG		
		JP 04 368851 (Abstract) *	Dec 21, 1992	Seiko Epson Corp		

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Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet 3 of 7

Complete if Known

Application Number

Filing Date

First Named Inventor

Kia Silverbrook

Art Unit

Examiner Name

Attorney Docket Number	WAL15US
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
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		JP 03 112662 (Abstract) *	May 14, 1991	Seiko Epson Corp		
		JP 03-653348 (Abstract)-*	Mar 20, 1991	Matsushita Electric Ind. Co		
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		GB 1 428 239 *	Mar 17, 1976	Cibie Projecteurs		

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				First Named Inventor	Kia Silverbrook
				Art Unit	
				Examiner Name	
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Sheet	4	of	7		

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)				
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		EP 0 427 291 *	May 15, 1991	Seiko Epson Corp		
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		JP 58 116165 (Abstract) *	Jul 11, 1983	Canon K.K		
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		JP 61 268453 (Abstract) *	Nov 27, 1986	Olympus Optical Co Ltd		
		JP 04 118241 (Abstract) *	Apr 20, 1992	Seiko Epson Corp		
		EP 0 506 232 *	Sep 30, 1992	Videojet Systems Int, Inc		
		JP 07 314665 (Abstract) *	Dec 05, 1995	Canon Inc		

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Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet 5 of 7

Complete if Known

Application Number

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First Named Inventor

Kia Silverbrook

Art Unit

Examiner Name

Attorney Docket Number | WAL15US

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
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		WO 97 12689 *	Apr 10, 1997	The Board of Trustees of the Leland — Stanford University		
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		EP 0 510 648 *	Oct 28, 1992	Avri Yehuda		
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		JP 04 141429 (Abstract) *	May 14, 1992	Seiko Epson Corp		
		JP 01 105746 (Abstract) **	Apr 24, 1989	Ricoh Co., Ltd		
		GB-792-145 *	Mar-19, 1958	Technograph Printed Circuits Ltd		
		EP 0 750 993 *	Jan 02, 1997	Canon K.K		
		JP 01 306254 (Abstract) *	Dec 11, 1989	Seiko Epson Corp		
		EP 0 092 229 *	Oct 26, 1983	Siemens AG		

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				Examiner Name	
Sheet	6	of	7	Attorney Docket Number WAL15US	

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		US-			
		US-			
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		DE 37 16 996 *	Dec 08, 1988	VDO Schindling		
		DE 34 30 155 *	Feb 27, 1986	Siemens AG		
		FR 2-231-076 *	Dec-20-1974	Electricite De France		
		GB 2.007.162 *	May 1979			

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		Filing Date	
		First Named Inventor	Kia Silverbrook
		Group Art Unit	
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		NOWOROLSKI, J. MARK et al, "Process for in-plane and out-of-plane single-crystal-silicon thermal microactuators". Sensors and Actuators, A, CH, Elsevier-Sequoia S.A., Lausanne, Vol-55, no.-1, 15 July 1996, pp-65-69, XP004077979 ISSN: 0924-4247. *	
		ATAKA, MANABU et al, "Fabrication and Operation of Polymide-Bimorph Actuators for Ciliary Motion System". Journal of Microelectromechanical Systems, US, IEEE Inc. New York, Vol. 2, no. 4, 1 December 1993, pp 146-150, XP000443412, ISSN: 1057-7157. *	
		YAMAGATA, YUTAKA et al, "A Micro Mobile Mechanism Using Thermal Expansion and its Theoretical Analysis". Proceeding of the workshop on micro electro mechanical systems (MEMS), US, New York, IEEE, Vol. Workshop 7, 25 January 1994, pp-142-147, XP000528408, ISBN: 0-7803-1834-X. *	

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